SRI SAI CONSULTANTS
SURVEYING, ENGINEERING PROJECT CONSULTANTS

ress for Correspondence:

#07, 1st Floor, 1st Cross, MEI Layout,
Bagalagunte, Near BBMP Zonal Office,
Nagasandra Post Hesaragatta Main Road,
Bangaloere-560 074
PH: 9900161466

TEST REPORT

Name of Work :	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
Client :	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
Consultants	Sri Sai Consultants,Bengaluru.
Contractor	M/s Sri S. R Mohan Kumar

SIEVE ANALYSIS

Total Weight:	3000	gms				
Type of Material	M sand			Proposed Use	concrete	
				Date of Testing	25-02-2023	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cummulative weight % retained (gm)	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	0	100.00	100
4.75 mm	210	7.00	210.00	0.23	99.77	90 - 100
2.36 mm	332	11.07	542.00	0.37	99.63	75 - 100
1.18 mm	442	14.73	984.00	0.49	99.51	55 - 90
0.600 mm	480	16.00	1464.00	0.53	99.47	35 -59
0.300 mm	695	23.17	2159.00	0.77	99.23	8-30
0.150 mm	633	21.10	2792.00	0.70	99.30	0 - 10

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

Consultant's Representative

A.E.E.

SRI SAI CONSULTANTS
SURVEYING, ENGINEERING PROJECT CONSULTANTS

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Bangaloere-560 074
PH: 9900161466

Test Report on Cement

Name of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
Client	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement OPC 53 Grade
Date of Sample Tested	15-02-2023
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5) RA-2019	98 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5) RA-2019	476 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4) RA-2019	28.00%	25 % to 35

nformation is furnished by the Agency

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

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PH: 9900161466

Test Report on Cement

of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
t	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
ultant	Sri Sai Consultants, Bangalore
ractor	M/s Sri S. R Mohan Kumar
ple ID	Cement OPC 53 Grade
of Sample d	12-03-2023
ple Supplied	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	104 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	463 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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ie work.

horised Signatory

AE-07

A.E.E.

SRI SAI CONSULTANTS

Consaultants Representavtive

E-mail

BRUHAT BANGALORE MAHANAGARA PALIKE

QUALITY TEST REPORT

PMC for the Package-4 in Yelahanka Division

Name of work: Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04)

(Sri Sai Consultants)

E-mail

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Bangaloere-560 074
PH: 9900161466

Test Report on Cement

Name of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
Client	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement OPC 53 Grade
Date of Sample Tested	06-02-2023
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5) RA-2019	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5) RA-2019	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	1 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4) RA-2019	27.00%	25 % to 35

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

SRI SAI CONSULTANTS

Consultant's Representative

E-mail

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Bangaloere-560 074
PH: 9900161466

Test Report on Cement

Name of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
Client	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement OPC 53 Grade
Date of Sample Tested	15-02-2023
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5) RA-2019	98 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5) RA-2019	476 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4) RA-2019	28.00%	25 % to 35

Information is furnished by the Agency

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SRI SAI CONSULTANTS

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Consultant's Representative

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TEST REPORT

Name of Work :	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
Client :	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
Consultants	Sri Sai Consultants,Bengaluru.
Contractor	M/s Sri S. R Mohan Kumar

SIEVE ANALYSIS

Total Weight:	3000 gms					
Type of Material	**M sand**			**Proposed Use**	concrete	
				Date of Testing	25-02-2023	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cummulative weight % retained (gm)**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	0	100.00	**100**
4.75 mm	210	7.00	210.00	0.23	99.77	**90 - 100**
2.36 mm	332	11.07	542.00	0.37	99.63	**75 - 100**
1.18 mm	442	14.73	984.00	0.49	99.51	**55 - 90**
0.600 mm	480	16.00	1464.00	0.53	99.47	**35 -59**
0.300 mm	695	23.17	2159.00	0.77	99.23	**8-30**
0.150 mm	633	21.10	2792.00	0.70	99.30	**0 - 10**

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Authorised Signatory

Consultant's Representative

SRI SAI CONSULTANTS

A.E.E.

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TEST REPORT

e of Work :	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
nt :	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
sultants	Sri Sai Consultants,Bengaluru.
tractor	M/s Sri S. R Mohan Kumar

SIEVE ANALYSIS

l Weight:	3000 gms					
e of erial	M sand			Proposed Use	concrete	
				Date of Testing	12-03-2023	

Sieve Size	Weight Retained	Cum. Weight Retained	Cummulative weight % retained (gm)	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
0 mm	0	0	0	0	100.00	100
mm	218	218	218.00	7.27	92.73	90 - 100
mm	344	562	562.00	18.73	81.27	75 - 100
mm	412	974	974.00	32.47	67.53	55 - 90
0 mm	450	1424	1424.00	47.47	52.53	35 -59
0 mm	751	2175	2175.00	72.50	27.50	8-30
0 mm	640	2815	2815.00	93.83	6.17	0 - 10

e:

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TEST REPORT

Name of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).	
Clients	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.	
Consultants	Sri Sai Consultants, Bangalore	
Contractor	M/s Sri S. R Mohan Kumar	
Total Weight:	5000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size		**Date of Testing**	26-02-2023	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	174	3.5	3.5	96.5	**95 - 100**
10.00 mm	2651	53.0	56.5	43.5	**25 - 55**
4.75 mm	1896	37.9	94.4	5.6	**0 - 10**

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TEST REPORT

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Clients	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.	
Consultants	Sri Sai Consultants, Bangalore	
Contractor	M/s Sri S. R Mohan Kumar	
Total Weight:	5000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size		**Date of Testing**	13-03-2023	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	178	3.56	3.56	96.44	**95 - 100**
10.00 mm	2653	53.06	56.62	43.38	**25 - 55**
4.75 mm	1895	37.90	94.52	5.48	**0 - 10**

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TEST REPORT

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ients	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.	
nsultants	Sri Sai Consultants, Bangalore	
ntractor	M/s Sri S. R Mohan Kumar	
tal Weight:	5000	gms

SIEVE ANALYSIS

pe of Material	20 mm down size		**Date of Testing**	13-03-2023	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	178	3.56	3.56	96.44	**95 - 100**
10.00 mm	2653	53.06	56.62	43.38	**25 - 55**
4.75 mm	1895	37.90	94.52	5.48	**0 - 10**

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TEST REPORT

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Clients	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.				
Consultants	Sri Sai Consultants, Bangalore				
Contractor	M/s Sri S. R Mohan Kumar				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
			Date of Testing	26-02-2023	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	481	481	4.81	95.19	**90-100**
10.0	4512	4993	49.93	50.07	**40-85**
4.75	4366	9359	93.59	6.41	**0-10**
Pan	641	10000			

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TEST REPORT

Name of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).				
Clients	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.				
Consultants	Sri Sai Consultants, Bangalore				
Contractor	M/s Sri S. R Mohan Kumar				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
			Date of Testing	13-03-2023	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	568	568	5.68	94.32	**90-100**
10.0	4536	5104	51.04	48.96	**40-85**
4.75	4328	9432	94.32	5.68	**0-10**
Pan	568	10000			

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

me of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
ent	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
nsultant	Sri Sai Consultants, Bangalore
ntractor	M/s Sri S. R Mohan Kumar
ade of ncrete:	M20
e of cube:	150x150x150 mm
ference IS de:	IS:516 (Part-1/Sec-1):2021

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25-02-2023	4-Mar-23	7 days	8.155	22500	310	13.78	13.67
2	25-02-2023	4-Mar-23	7 days	8.162	22500	308	13.69	
3	25-02-2023	4-Mar-23	7 days	8.181	22500	305	13.56	

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uthorised Signatory

Consultant's Representative

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

me of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
ent	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
nsultant	Sri Sai Consultants, Bangalore
ntractor	M/s Sri S. R Mohan Kumar
ade of ncrete:	M20
e of cube:	150x150x150 mm
ference IS de:	IS:516 (Part-1/Sec-1):2021

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02-03-2023	9-Mar-23	7 days	8.182	22500	311	13.82	
2	02-03-2023	9-Mar-23	7 days	8.169	22500	308	13.69	13.75
3	02-03-2023	9-Mar-23	7 days	8.144	22500	309	13.73	

ote:
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Consultant's Representative

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dress for Correspondence:

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Nagasandra Post Hesaragatta Main Road,
Bangaloere-560 074
PH: 9900161466

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

me of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
ent	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
nsultant	Sri Sai Consultants, Bangalore
ntractor	M/s Sri S. R Mohan Kumar
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e of cube:	150x150x150 mm
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Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
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	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
ant	Sri Sai Consultants, Bangalore
tor	M/s Sri S. R Mohan Kumar
f e:	M20
cube:	150x150x150 mm
ice IS	IS:516 (Part-1/Sec-1):2021

l.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-04-2023	9-May-23	28days	8.200	22500	498.60	22.16	22.70
2	11-04-2023	9-May-23	28days	8.236	22500	511.10	22.72	
3	11-04-2023	9-May-23	28days	8.214	22500	522.30	23.21	

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	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
	Sri Sai Consultants, Bangalore
	M/s Sri S. R Mohan Kumar
	M25
e:	150x150x150 mm
IS	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	28-01-2023	4-Feb-23	7 days	8.201	22500	398.56	17.71	17.72
	28-01-2023	4-Feb-23	7 days	8.185	22500	401.50	17.84	
	28-01-2023	4-Feb-23	7 days	8.199	22500	396.23	17.61	

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nt	Sri Sai Consultants, Bangalore
or	M/s Sri S. R Mohan Kumar
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be:	150x150x150 mm
e IS	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

).	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	28-01-2023	25-Feb-23	28 days	8.321	22500	658.30	29.26	27.97
	28-01-2023	25-Feb-23	28 days	8.298	22500	621.20	27.61	
	28-01-2023	25-Feb-23	28 days	8.301	22500	608.30	27.04	

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nt	Sri Sai Consultants, Bangalore
or	M/s Sri S. R Mohan Kumar
:	M25
ube:	150x150x150 mm
e IS	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

o.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	22-02-2023	1-Mar-23	7 days	8.185	22500	392.20	17.43	17.57
	22-02-2023	1-Mar-23	7 days	8.179	22500	395.60	17.58	
	22-02-2023	1-Mar-23	7 days	8.152	22500	398.18	17.70	

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e IS	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

o.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	22-02-2023	22-Mar-23	28days	8.326	22500	621.30	27.61	28.07
	22-02-2023	22-Mar-23	28days	8.325	22500	632.50	28.11	
	22-02-2023	22-Mar-23	28days	8.299	22500	641.20	28.50	

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ıbe:	150x150x150 mm
e IS	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

).	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	16-03-2023	23-Mar-23	7 days	8.167	22500	385.20	17.12	17.21
	16-03-2023	23-Mar-23	7 days	8.169	22500	381.00	16.93	
	16-03-2023	23-Mar-23	7 days	8.188	22500	395.43	17.57	

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IS	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	16-03-2023	13-Apr-23	28days	8.299	22500	652.30	28.99	28.09
	16-03-2023	13-Apr-23	28days	8.302	22500	641.30	28.50	
	16-03-2023	13-Apr-23	28days	8.278	22500	602.50	26.78	

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	M/s Sri S. R Mohan Kumar
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S	IS:516 (Part-1/Sec-1):2021
	Government School Building,Yelahanka

	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	14-09-2023	21-Sep-23	7 days	8.164	22500	389.98	17.33	17.46
	14-09-2023	21-Sep-23	7 days	8.175	22500	395.20	17.56	
	14-09-2023	21-Sep-23	7 days	8.173	22500	393.50	17.49	

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ıt	Sri Sai Consultants, Bangalore
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.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	14-09-2023	12-Oct-23	28days	8.326	22500	602.80	26.79	27.86
	14-09-2023	12-Oct-23	28days	8.316	22500	635.20	28.23	
	14-09-2023	12-Oct-23	28days	8.369	22500	642.80	28.57	

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	M30
be:	150x150x150 mm
e IS	IS:516 (Part-1/Sec-1):2021
	GKVK, Yelahanka

.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
	13-11-2023	20-Nov-23	7 days	8.210	22500	486.74	21.63	21.67
	13-11-2023	20-Nov-23	7 days	8.170	22500	485.62	21.58	
	13-11-2023	20-Nov-23	7 days	8.160	22500	490.22	21.79	

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PH: 9900161466

TEST REPORT ON BITUMINOUS

of work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
ltant	Sri Sai Consultants,Bengaluru.
ıctor	M/s Sri S. R Mohan Kumar

sults of the tests conducted on th bitumen sample using for Dense Graded Bituminous Macadam

ed Use	Dense Graded Bituminous Macadam	**Date of Testing**	04-04-2023
e on	At plant		

ults of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

	Description	Test Result	Requirement as per IS:73:2013 RA: 2018
	Penetration at 25 'C, 1/10 mm	46	Min. 45
	Softening point, °C	52	Min.47
	Ductility at 27°C, cm	>100	Min.40
	Flash Point, °C	316	Min.220

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FLAKINESS AND ELONGATION INDICES OF COARSE AGGREGATES (IS 2386, PART I)

rk	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs. Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
	Sri Sai Consultants, Bengaluru.
	M/s Sri S. R Mohan Kumar
terial	Dense Graded Bituminous Macadam
ation	At plant

				Proposed Use	DBM
e of aggregate					
		Flakiness Index		Date of Testing	06-04-2023
rough mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Elongation Index Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
	50.0	0	0	0	0
	40.0	0	0	0	0
	31.5	7380	695	7032	336
	25.0	4133	264	3611	267
	20.0	2466	272	1905	240
	16.0	1551	351	952	250
	12.5	590	125	466	185
	10.0	485	89	278	79
	6.3	125	92	65	65
Total		**16730**	**1888**	**14309**	**1422**

Flakiness Index(%):	**11.29**
Elongation Index(%):	**9.94**
Combined FI+EL (%)	**21.22**

wable Flakiness and Elongation Index for dense graded bituminuos macadam is 35%

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AGGREGATE GRADATION TEST
(IS:2386 Part 1-1963 RA 2021)

me of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs. Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
ent	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
nsultant	Sri Sai Consultants, Bengaluru.
ntractor	M/s Sri S. R Mohan Kumar

mple Location:	At plant						
pe of material :	Dense Graded Bituminous Macadam					Date of testing:	07-04-2023
al Weight of mple	478.50						

Sieve size in mm	Weight retained	% retained (gm)	Cummulative weight % retained (gm)	Cummulative % of retained	Cummulative % of passing	Grade-II As per MORTH	Reamrks
37.50	0	0	0	0.00	100.00	100	Gradation satisfies Grade-II MORTH specification
26.50	36	7.5	36.0	7.52	92.48	90 - 100	
19.00	84	17.6	120.0	25.08	74.92	71 - 95	
13.20	70	14.6	190.0	39.71	60.29	56 - 80	
4.750	82	17.1	272.0	56.84	43.16	38 - 54	
2.360	42	8.8	314.0	65.62	34.38	28 - 42	
0.300	99	20.7	413.0	86.31	13.69	7 - 21	
0.750	45	9.4	458.0	95.72	4.28	2 - 8	

l Weight of ple:	476.00

ieve size in mm	Weight retained	% retained (gm)	Cummulative weight % retained (gm)	Cummulative % of retained	Cummulative % of passing	Grade-II As per MORTH	Reamrks
37.50	0	0	0	0.00	100.00	100	Gradation satisfies Grade-II MORTH specification
26.50	32	6.7	32.0	6.72	93.28	90 - 100	
19.00	96	20.2	128.0	26.89	73.11	71 - 95	
13.20	72	15.1	200.0	42.02	57.98	56 - 80	
4.750	85	17.9	285.0	59.87	40.13	38 - 54	
2.360	43	9.0	328.0	68.91	31.09	28 - 42	
0.300	54	11.3	382.0	80.25	19.75	7 - 21	
0.750	60	12.6	442.0	92.86	7.14	2 - 8	

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d in the laboratory/Site.
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aterial used in the site satisfied the standard of MORTH's 5th revision and hence can be used
ork.

sed Signatory

SRI SAI CONSULTANTS

Consultant's Representative

SRI SAI CONSULTANTS
SURVEYING, ENGINEERING PROJECT CONSULTANTS

ress for Correspondence:

#07, 1st Floor, 1st Cross, MEI Layout,
Bagalagunte, Near BBMP Zonal Office,
Nagasandra Post Hesaragatta Main Road,
Bangaloere-560 074
PH: 9900161466

DETERMINATION OF RATE OF SPREAD TACK COAT

e of Work :	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
t :	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
ultant :	Sri Sai Consultants,Bengaluru.
ractor :	M/s Sri S. R Mohan Kumar
of Testing :	07-12-2023
of Mix :	Tack coat
ple I/D :	1

Determination	Unit	Test No	
		1	2
Location	Chainage	For Profile Correction	For Profile Correction
f Plate (mxm)	Mt	0.45 x 0.45	0.45 x 0.45
of Plate (a)	Sq.mtr	0.2025	0.2025
l Wt of empty Plate (b)	Kg	1.624	1.630
weight of plate after application of tack Coat (c)	Kg	1.680	1.683
nt of tack Coat (d=c-b)	Kg	0.0560	0.0530
of spread of tack coat	Kg/sq.m	0.277	0.262
ge	Kg/sq.m	0.269	
fied Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Work :	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
nt :	Sri Sai Consultants,Bengaluru.
or :	M/s Sri S. R Mohan Kumar
esting :	07-12-2023
Mix :	Tack coat
D :	2

Determination	Unit	Test No	
		1	2
Location	Chainage	For Profile Correction	For Profile Correction
ate (mxm)	Mt	0.45 x 0.45	0.45 x 0.45
ate (a)	Sq.mtr	0.2025	0.2025
of empty Plate (b)	Kg	1.627	1.632
ght of plate after application of tack Coat (c)	Kg	1.685	1.687
tack Coat (d=c-b)	Kg	0.0580	0.0550
read of tack coat	Kg/sq.m	0.286	0.272
	Kg/sq.m	0.279	
Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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ults indicated above are based on the tests carried out on the samples received in the laboratory/Site.
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TEST REPORT ON BITUMINOUS

ork	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
t	Sri Sai Consultants,Bengaluru.
r	M/s Sri S. R Mohan Kumar

s of the tests conducted on th bitumen sample using for Bituminous Concrete

Use	Bituminous Concrete	**Date of Testing**	**05-12-2023**

s of the tests conducted on the bitumen sample using for Bituminous Concrete

Description	Test Result	Requirement as per IS:73:2013 RA: 2018
Penetration at 25 'C, 1/10 mm	48	Min. 45
Softening point, °C	54	Min.47
Ductility at 27°C, cm	>100	Min.40
Flash Point, °C	308	Min.220

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Bangaloere-560 074
PH: 9900161466

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4-1963 RA 2021)

f work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).		
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.		
tant	Sri Sai Consultants,Bengaluru.		
ctor	M/s Sri S. R Mohan Kumar		
ed Use	Bituminous Concrete	**Date of Testing**	**05-12-2023**
on	At plant		

	Description		Test No. 1	Test No. 2	
	Total weight of aggregate sample filling thecylindrical measure = W_1 g	(W_1)	375.00	377.00	
	Weight of agregate passing 2.36 mm sieve atter the test = W_2 g	(W_2)	297.00	297.00	
	Weight of aggregate retained 2.36 mm sieve after the test = W_3g	(W_3)	78.00	80.00	
	Aggregate Impact Value (%)	(W_3/W_1)*100	20.80	21.22	
	Average Aggregate impact value	(%)	**21.01**		

mum allowable Aggregate Impact Value for Bituminous Concrete is 24%

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Mr

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FLAKINESS AND ELONGATION INDICES OF COARSE AGGREGATES (IS 2386, PART 1)

k	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
	Sri Sai Consultants, Bengaluru.
	M/s Sri S. R Mohan Kumar
erial	Bituminous Concrete
ıtion	At plant

				Proposed Use	DBM
e of aggregate				Date of Testing	05-12-2023
		Flakiness Index		Elongation Index	
rough mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
	50.0	0	0	0	0
	40.0	0	0	0	0
	31.5	0	0	0	0
	25.0	0	0	0	0
	20.0	0	0	0	0
	16.0	855	82	932	70
	12.5	1366	151	1225	117
	10.0	522	93	435	39
	6.3	445	58	422	55
Total		3188	384	3014	281

Flakiness Index(%):	**12.05%**
Elongation Index(%):	**9.32%**
Combined FI+EL (%)	**21.37%**

allowable Flakiness and Elongation Index for Bituminous Concrete is 35%

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dress for Correspondence:

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AGGREGATE GRADATION TEST
(IS:2386 Part 1-1963 RA 2021)

of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
ltant	Sri Sai Consultants, Bengaluru.
actor	M/s Sri S. R Mohan Kumar

le Location:	At plant					
of material :	Bituminous Concrete				Date of testing:	05-12-2023
Weight of le:	471.00					

eve size in mm	Weight retained	% retained (gm)	Cummulative % of retained	Cummulative % of passing	Grade-II As per MORTH	Reamrks
37.50	0	0	0.00	100.00	100	Gradation satisfies Bituminous Concrete Grade-II MORTH specification
26.50	36	7.6	7.64	92.36	90 - 100	
19.00	84	17.8	25.48	74.52	71 - 95	
13.20	70	14.9	40.34	59.66	56 - 80	
4.750	82	17.4	57.75	42.25	38 - 54	
2.360	42	8.9	66.67	33.33	28 - 42	
0.300	99	21.0	87.69	12.31	7 - 21	
0.750	45	9.6	97.24	2.76	2 - 8	
Weight of e:	473.00					

ve size in mm	Weight retained	% retained (gm)	Cummulative % of retained	Cummulative % of passing	Grade-II As per MORTH	Reamrks
37.50	0	0	0.00	100.00	100	Gradation satisfies Bituminous Concrete Grade-II MORTH specification
26.50	32	6.8	6.79	93.21	90 - 100	
19.00	96	20.3	27.18	72.82	71 - 95	
13.20	72	15.2	42.46	57.54	56 - 80	
4.750	85	18.0	60.51	39.49	38 - 54	
2.360	43	9.1	69.64	30.36	28 - 42	
0.300	54	11.4	81.10	18.90	7 - 21	
0.750	60	12.7	93.84	6.16	2 - 8	

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX	
Name of Work	Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04).
Client	Assistant Executive Engineer, Yelahanka Division, BBMP,Bengaluru.
Consultant	Sri Sai Consultants,Bengaluru.
Contractor	M/s Sri S. R Mohan Kumar
Date of Testing	09-12-2023
Type of Mix	Bituminous Concrete
Sample I/D	BC-3

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	949	939
2. Weight of Mixture after extraction, g	898	889
3. Weight of Bitumen	51	50
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	2.00
7. Weight of Bitumen & fines	53.10	52.00
8. Bitumen content in %	5.60	5.54
9. Average Bitumen content in %	5.57%	

Minimum Bitumen content in % **5.40%**

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

			Date of testing:	09-12-2023	
Type of material & Purpose:	BC		**Oven Dry Wt.(gms):**	898	
IS Sieve size in mm	**Weight retained**	**Cummulative weight retained (gm)**	**Cummulative % of retained**	**Cummulative % of passing**	**Specification limits**
19.00	0	0	0.00	100	100
13.20	62	62.0	6.90	93.10	90 - 100
9.50	120	182.0	20.27	79.73	70 - 88
4.75	132	314.0	34.97	65.03	53 - 71
2.360	118	432.0	48.11	51.89	42 - 58
1.180	105	537.0	59.80	40.20	34 - 48
0.600	75	612.0	68.15	31.85	26 - 38
0.300	81	693.0	77.17	22.83	18 - 28
0.150	62	755.0	84.08	15.92	12 - 20
0.075	66	821.0	91.43	8.57	4 - 10
Pan	77.0	898.0			
Total	898.0				

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

Consultant's Representative